

Concrete Admixture Polycarboxylic Acid

Concrete Admixture Polycarboxylic Acid is a superplasticizer for high performance concrete, high strength concrete, high volume fly ash/slag concrete and grouting/self-leveling screed/mortar.

Characteristics of polycarboxylic acid:

1. High early strength: Significant increase of early strength and 28d strength.
2. Low slump loss: Great reduction of slump loss. Improved concrete cohesiveness.
3. Excellent durability: Reduction of cracking , shrinkage and creep. Superior finish.
4. High water reduction. Enhanced strength.
5. Environmental friendly products: Non pollution during production.

This new generation concrete admixture polycarboxylic acid gives early strength, and reduces water required for precast concrete.

Applications:

Concrete Admixture Polycarboxylic Acid is suitable for making precast concrete products with flowing-plastic or super

workable concrete having very good consistency and no segregation, It gives low water to cement ratio and high strengths. SCC (self compacting concrete) is the best example for PCE.

polycarboxylic acid is suitable for manufacturing concrete capable of self-compaction without any vibration, for making precast elements.

polycarboxylic acid Improves surface finish giving durable precast concrete products. This is a shrinkage reducing admixture giving early strength.

Polycarboxylic acid is available as liquid and powder form.

Items	PCE liquid 50%	PCE powder 97%
Visual Appearance	White or light yellow to brown viscous liquid	Off white or Light Yellow Powder
Density	1.10 ± 0.2	$450 \pm 50 \text{ kg /m}^3$
pH	6.0 ± 1.0	20% water solution 6.0 ± 1.0
Solid Content %	50 ± 1.0	97.0 ± 1.0

Stability	No Crystallization	Stable
Cl	≤ 0.02	≤ 0.02
Dosages: (wt% of cement)	0.25%—0.8%	0.1—0.4%
Water Reducing ratio	≥ 25	≥ 25

Area

